

RESOLUTION NO. 1835

**A RESOLUTION OF THE TOWN COMMISSION OF  
THE TOWN OF SURFSIDE, FLORIDA, ADOPTING  
NINE STORMWATER ELEMENTS INTO THE  
TOWN'S STORMWATER MASTER PLAN,  
PROVIDING FOR AN EFFECTIVE DATE;**

**WHEREAS**, the Town of Surfside intends to apply for a Section 319(h) Non-Point Source Pollution Program Grant (319) through the U.S. Environmental Protection Agency's and the Florida Department of Environmental Protection; and

**WHEREAS**, in support of its 319 grant application, the Town Commission has determined that it is in the best interests of the Town to adopt and incorporate the U.S. Environmental Protection Agency's 319 Guidance for the Nine Elements into the Town's Stormwater Master Plan as described in the document attached hereto as Exhibit "A".

**NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION  
OF THE TOWN OF SURFSIDE, FLORIDA, AS FOLLOWS:**

**Section 1.    Recitals Adopted.** That each of the above stated recitals are hereby adopted, confirmed, and incorporated herein.

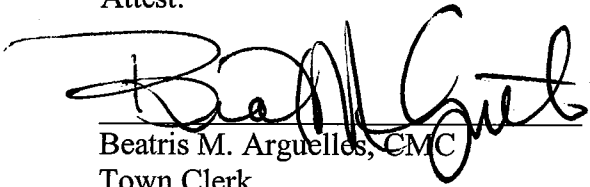
**Section 2.    319 Guidance for Nine Elements.** The Town Commission hereby adopts the Nine Elements for incorporation into the Town's Stormwater Master Plan described in Exhibit "A."

**Section 3.    Effective Date.** That this Resolution shall be effective immediately upon adoption.

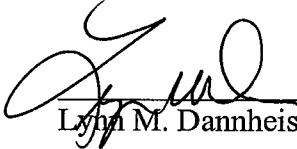
**PASSED and ADOPTED** on this **13**th day of May, 2008.

\_\_\_\_\_  
Charles W. Burkett, Mayor

Attest:

  
Beatris M. Arguelles, CMC  
Town Clerk

**APPROVED AND TO FORM AND  
LEGAL SUFFICIENCY:**

  
Lynn M. Dannheisser, Town Attorney

## Exhibit A

The following nine elements have been incorporated into the Final Town of Surfside Stormwater Master Plan (Calvin Giordano Associates, 2008) and adopted via resolution by the Town of Surfside, May 2008.

The Nine Elements of the Town of Surfside Stormwater Master Plan as identified per 319(h) EPA Guidance are:

- a. An identification of the causes and sources or groups of similar sources that will need to be controlled to achieve the load reductions estimated in this watershed-based plan.

*Biscayne Bay and Indian Creek are listed on the EPA 303d list. The project implements goals set forth by the South Miami-Dade Watershed Plan, initiated by the Miami-Dade County Department of Planning and Zoning that examines the impact of different land use patterns on the water quality of Biscayne Bay. The South Dade Watershed Plan complement water management activities by developing a set of best management practices for all sources of water runoff into Biscayne National Park and adjacent communities, and by assuring the compatibility of land uses and zoning decisions. However, Biscayne Bay is not slated for the final adoption of TMDL until 2009. Therefore, TMDL load reductions have not been established for the Bay or the Town. But, the Town's Stormwater Master Plan has identified pollutant loadings for the Town for all the outfall sources. The loading rates are listed in paragraph (b) below.*

- b. An estimate of the load reductions expected for the management measures described under paragraph (c) below.

*Stormwater Solutions, Inc. and Alacri, Inc. engineering firms generated current pollutant loadings for the Town of Surfside utilizing Dr. Harvey Harper's Simple Method.*

**Surfside Stormwater Improvements Existing Pollutant Loadings**

Basin	Land Use	Area (Acres)	TP Loading Rate (lb/day/acre)	TP Loading Rate (lb/day/acre)	TP Loading Rate (lb/day/acre)	TP Loading Rate (lb/day/acre)
B1	Single Family	21.96	4.68	0.594	56.1	102.8
	Commercial	3.9	13	1.96	435	50.7
B2	Single Family	37.4	4.68	0.594	56.1	175.0
	Commercial	1.3	13	1.96	435	16.9
B3	Single Family	67	4.68	0.594	56.1	313.6
B4	Single Family	38.9	4.68	0.594	56.1	182.1
B5	Single Family	44.59	4.68	0.594	56.1	208.7
B6	Single Family	7.27	4.68	0.594	56.1	34.0
<b>Totals</b>		<b>222.32</b>				<b>1,084</b>

\*\*Based upon "Stormwater Loading Rate Parameters for Central and South Florida" from Dr. Harvey Harper, 1994

Areas Alacri Inc provided pollutant loadings for are B2, B5, & B6

c. A description of the NPS management measures that will need to be implemented to achieve the load reductions estimated under paragraph (b) above and an identification (using a map or a description) of the critical areas in which those measures will be needed to implement this plan.

*The Town currently has two major projects listed on its 5-year Capital Improvement Plan list for the treatment of stormwater pollutants discharging from five Town-maintained and two FDOT-maintained outfalls. The Town has both projects funded and scheduled for construction during 2008-2010. These two projects include the construction of:*

- *The Surfside Community Green Roof and Gray Water Demonstration Project, estimated to cost \$600,000. This project is a demonstration project that relates to the public how untreated stormwater can be captured and recycled for use into gray water systems. It is seeking \$300,000 from this grant program.*
- *Surfside Stormwater Treatment Trains & Rehabilitation, estimated to cost \$1,747,500. This project uses treatment trains of baffle boxes, pumps, and drainage wells to reduce pollutant loadings from three outfalls to Biscayne Bay. Runoff from the Town discharges to Biscayne Bay, which is on Florida's Group 4 Verified List of impaired waters. The pollutant of concern for this water body is fecal coliforms.*

*In addition, FDOT has a major exfiltration and deep well injection project underway for SR A1A (Collins Avenue), which accounts for nearly one-third of the pollutant removals for the Town's pollutant budget that are flowing to two major outfalls.*

d. An estimate of the amounts of technical and financial assistance needed, associated costs, and/or the sources and authorities that will be relied upon, to implement this plan.

*The development of the two CIP projects will cost the Town approximately \$2,247,000. Currently, the city has budgeted approximately \$1,000,000 for the projects. It received a \$873,500 grant from the TMDL Water Quality Restoration Program for the Surfside Stormwater Treatment Trains & Rehabilitation in December 2007. This grant project is currently underway and slated for completion in early 2010. The Town's stormwater utility currently generates \$130,000 annually. In 2008, it will generate \$135,000.*

e. An information/education component that will be used to enhance public understanding of the project and encourage their early and continued participation in selecting, designing, and implementing the NPS management measures that will be implemented.

- *The Town of Surfside's 5-year Capital Improvement Program: The Town recently completed charette planning meetings (publicized on its website) to update its CIP and budget allocations for FY08-09. The on-going public education for stormwater concerns in the Town include coverage in the Miami Herald, Miami Sun Post newspapers, the Town's website and newsletter. Press releases are regularly distributed regarding the implementation of projects. In addition, project information is featured on Miami-Dade County's local government TV station as progress presentations.*

*By addressing stormwater concerns within the Town, it addresses long-term issues raised by several regional groups working within Miami-Dade County to address the restoration of natural resources in Biscayne Bay. Stormwater projects directly address The Trust for*

*Public Land's Biscayne Bay Accessibility report issued in 2006, that has several goals. This project directly addresses Toll's goal to:*

- 1. Promoting a county-wide Biscayne Bay organization to sustain the effort to protect the Bay.*
- 2. Improving and integrating Bay-oriented communications, including publications, online resources, and other information sharing. (see attachments for a copy of the Report executive summary.)*

*Projects support the SFWMD's Biscayne Bay Partnership Initiative (BBPI), which has recommended the following action for the restoration of watersheds:*

- Support ongoing regional restoration plans and land-based activities occurring in the watershed should be integrated and coordinated with existing management processes.*

*The project implements goals set forth by the South Miami-Dade Watershed Plan, initiated by the Miami-Dade County Department of Planning and Zoning that examines the impact of different land use patterns on the water quality of Biscayne Bay. The South Dade Watershed Plan complement water management activities by developing a set of best management practices for all sources of water runoff into Biscayne National Park and adjacent communities, and by assuring the compatibility of land uses and zoning decisions.*

*Finally, this project complements the Towns efforts to update its current comp plan and stormwater master plan (Giordano, 2008) that will include the incorporation and adoption of LID (Low Impact Design) features to the greatest applicable extent when re-building or new building occurs in both residential and commercial zoning areas in the Town's stormwater regulations.*

*The Town has actively involved the community in the development of its environmental program by involving the public in the planning stage and improvement of the project area. As with all of government major stormwater improvement projects, educational signage will be erected at the site, which describes the benefits of this project on stormwater systems.*

*As with all MS4 entities, the Town is mandated to develop and implement a stormwater management program of quantifiable goals and BMPs for six minimum control measures. This project will assist the Town in its effort to implement all six of these goals including (1) Public Education and Outreach, (2) Public Participation/Involvement, (3) Illicit Discharge Detection and Elimination, (4) Construction Site Runoff Control, (5) Post Construction Runoff Control, and (6) Pollution Prevention Good Housekeeping. All NPDES reports have been submitted and up to date. The next report for October 8, 2006 through October 7, 2007 is due on August 1, 2008:*

*Robert van den Akker, SAIC, MS4 Compliance Evaluator, 12901 Science Drive, Orlando, FL 32826, phone 407-243-3978.*

- f. A schedule for implementing the NPS management measures identified in this plan that is reasonably expeditious.*

*The Town has initiated the planning process in for the Green Roof project in early October 2007. The current Project design and construction schedule is provided below. The project construction will be completed prior to March 2009.*

### Project's Projected Quarterly Completion Schedule

Final Design and Environmental Permitting: Second Quarter 2007

Bidding Design: Third Quarter 2007

Bidding Construction: Third Quarter 2009


Construction: Fourth Quarter 2009

Education: Third Quarter 2007-First Quarter 2010.

g. A description of interim, measurable milestones for determining whether NPS management measures or other control actions are being implemented.

*The SFWMD has been utilizing the seagrass propagation in this area as a measurable milestone for showing decrease in stormwater impact on the natural system and restoration or improvement in water clarity for the water body. Until TMDLs and PLRGs are developed and fully adopted in 2008-09, the Town will continue to rely on the WMD's method of measuring a decrease in NPS impacts on a natural system.*

*In addition, the Town has maintained regular reporting with its NPDES permit. See attached document below:*



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Commissioner

STEVEN LEVINE, Esq.,  
Commissioner

MARY BLUMSTEIN, Esq.,  
Commissioner

W. D. HIGGINBOTHAM  
TOWN MANAGER

July 19, 2007

Sarah Jozwiak  
Florida Department of Environmental Protection  
NPDES Stormwater Section  
Mail Station 2500  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Re: Miami-Dade County Municipal Separate Storm Sewer System (MS4)  
NPDES Permit No. FL5400003  
Year 4 Audit Notification and Annual Report Comments Letter

Dear Sarah Jozwiak,

This letter in response to the FDEP comments letter dated June 1, 2007. The comments and responses are list below.

**Comment:**

1) Section VII, Part III.A.3: The Town reported "N/A" for the documentation/record for the reporting items listed below. Provide the title of the documentation/record used to obtain the number reported in Column C for each of the following reporting items:

- a. Personnel: Frequency of litter collection
- b. Personnel: Amount of litter collected (bags)

**Response:** a. Litter collection is conducted Six days a week in the Town of Surfside with assigned Public Works staff. Payroll sheets can be pulled for this information.

b. Assigned Public Works staff takes full truck loads to the Department of Solid Waste. Binder labeled "Department of Solid Waste Invoices" is on file at the Town of Surfside Public Works office.

2) Section VII, Part III.A.3: The Town reported "Varies" for the number of activities performed for the following reporting item: Personnel: Amount of litter collected (bags). Provide the estimated total amount of litter collected based on the documentation/record maintained of the activity.

h. A set of criteria that can be used to determine whether loading reductions are being achieved over time and substantial progress is being made toward attaining water quality standards and, if not, the criteria for determining whether this watershedbased plan needs to be revised or, if a NPS TMDL has been established, whether the NPS TMDL needs to be revised.

*This waterbody is on DEP's Group 4 Verified List. Again, it is anticipated that TMDLs and PLRGs will be established for the Biscayne Bay and utilized by the Town for planning reference and should be adopted during 2008-09.*

i. A monitoring component to evaluate the effectiveness of the implementation efforts over time, measured against the criteria established under item (h) immediately above.

*Post-project monitoring will be implemented for the Town's CIP stormwater projects to estimate the pollutant load removals resulting from the project BMPs.*

*Regionally, the TMDL review program will monitor and provide a look at health of Biscayne Bay via DEP during Year 5 of the program.*